



VIXEN FILES
(Milled Curved-Tooth)
Pages 2-3

**HACK SAW
BLADES**
Page 5

AUTOMOTIVE FILES & TOOLS

The ORIGINAL and still the BEST...

VIXEN

MILLED CURVED-TOOTH FILES

NUCUT FILES
(American Pattern)
Page 4

**BODY
BUMPING
FILES**
Page 6

**IGNITION
FILES**
Page 5

HAMMERS
Page 6

HELLER TOOL CO.



America's Oldest File Manufacturer
NEWCOMERTOWN, OHIO
Subsidiary of Simonds Saw and Steel Co.

VIXEN RIGID TANGED FILES

Milled Curved-Tooth

Originated by Heller Tool Co. over 35 years ago, the Vixen still stands as the greatest single improvement ever made in metal finishing files. The Milled Curved Teeth of Vixen work like miniature milling cutters . . . and almost as fast. The forward slant or undercut of Vixen teeth give the file a definite cutting action. Vixen's keen teeth bite deep and curl off long filings with every stroke. Vixen cuts faster, freer, smoother. It's the original and still the best.

FLAT WITH TANG



SIZE	CUT	SIZE	CUT
8" x 1 1/16" x 11/64"	ST	12" x 1 5/32" x 17/64"	ST
10" x 1" x 7/32"	ST	14" x 1 11/32" x 5/16"	ST

FLAT UTILITY WITH TANG



SIZE	CUT	SIZE	CUT
8" x 1 1/16" x 11/64"	One side ST, one side S	12" x 1 5/32" x 17/64"	One side ST, one side S
10" x 1" x 7/32"	One side ST, one side S	14" x 1 11/32" x 5/16"	One side ST, one side S

HALF ROUND WITH TANG



SIZE	CUT	SIZE	CUT
8" x 23/32" x 1/4"	ST	12" x 1 1/8" x 3/8"	ST
10" x 1 5/16" x 3/16"	ST	14" x 1 1/32" x 7/64"	ST

VIXEN plain blade files

The tangless, or blade type Vixen, is designed for use with an aluminum adjustable file holder, an appropriate wooden holder, or a steel back.

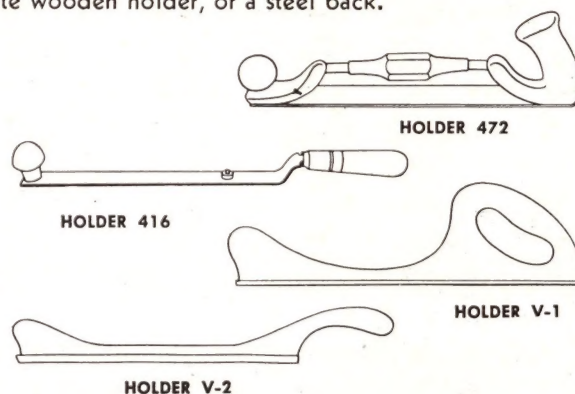
VIXEN FLEXIBLE FILES

Flexible files are generally used with an adjustable file holder. Flexible files are particularly adapted to all types of auto body and sheet metal work. They have teeth on both sides, and can be adjusted in a file holder to file flat, outward (convex), or inward (concave). Use with Flat Holder No. 416, Adjustable Aluminum Holder No. 472, or Wooden Holder No. V-1.



SIZE	CUT
8" x 25/32" x 5/32"	ST
10" x 1" x 5/32"	ST
12" x 1 1/32" x 3/16"	ST
14" x 1 11/32" x 3/16"	ST*
14" x 1 11/32" x 3/16"	Babbitt

* The 14" Flexible Vixen is available in 7-tooth (Babbitt) and 9-tooth. The 8-tooth (Standard) is furnished unless otherwise specified.



SPECIAL SEALED PACKAGE

All 14-inch Flexible files are sealed in individual envelopes at the factory for buyers' protection against imitation, inferior and resharpened files.

HALF ROUND SHELL



SIZE	CUT
14" x 1 5/32" x 1/8"	ST

Use with Wooden Holder No. V-2

HALF OVAL SHELL



SIZE	CUT
14" x 1 5/32" x 3/64"	ST

Use with Wooden Holder No. V-2

VIXEN

Milled Curved-Tooth

REVEAL TOOLS & FILES

Reveal files are used in small corners, on ledges and overhangs, and similar hard-to-get-at places. These special shapes with holders for each are the most complete line of reveal files available.



No. 152—Reveal Tool (Holder only). Made of brass with hinged center piece. A threaded bolt with wing nut anchors the file in working position. 7" long.



No. 153—Reveal Half Round Shell Vixen. $2\frac{3}{4}$ " long.



No. 154—Reveal Flat Square Cornered Vixen, one edge bent. $2\frac{3}{4}$ " long.



No. 155—Reveal Round Cornered Vixen. $2\frac{3}{4}$ " long.



No. 156—Reveal Half Round Bent Shell Vixen. $2\frac{3}{4}$ " long.



No. 157—Reveal Half Round Molding Vixen. $2\frac{3}{4}$ " long.

Set No. 158 includes holder and No. 155 Vixen file.

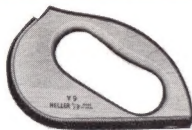
Set No. 159 includes holder and five assorted Vixen files.



NO. V-7 WOODEN HOLDER FOR
No. 332—7" x $\frac{5}{8}$ " Special Window Reveal Flat file.



NO. V-8 WOODEN HOLDER FOR
No. 1389—7" x $\frac{5}{8}$ " Special Window Reveal Molding file.



NO. V-9 WOODEN HOLDER FOR
No. 1386—7" x $\frac{5}{8}$ " Special Window Reveal Shell file.



NO. V-10 WOODEN HOLDER FOR
No. 996—12" Special Curved Reveal Shell file.



HELLER

rotary files



POPULAR ASSORTMENT NO. 45
(GROUND-FROM-SOLID)

FOR COMPLETE LINE OF ROTARY FILES SEE CATALOG No. R-48



HG-7-M



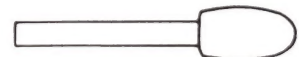
HG-10-M



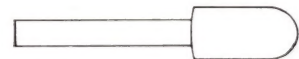
HG-14-M



HG-21-M



HG-38-M



HG-62-M



HG-94-M



HG-96-M

MILL BASTARD



SIZE	SIZE
4" x 7/16" x 5/64"	10" x 31/32" x 11/64"
6" x 19/32" x 7/64"	12" x 1-5/32" x 7/32"
8" x 25/32" x 9/64"	14" x 1-5/16" x 1/4"

2 ROUND EDGES Made in 8" and 10" Bastard Cut Only

HALF ROUND BASTARD



SIZE	SIZE
6" x 19/32" x 5/32"	12" x 1-1/8" x 11/32"
8" x 3/4" x 7/32"	14" x 1-9/32" x 13/32"
10" x 15/16" x 9/32"	

FLAT BASTARD



SIZE	SIZE
4" x 15/32" x 3/32"	10" x 31/32" x 1/4"
6" x 5/8" x 5/32"	12" x 1-5/32" x 9/32"
8" x 25/32" x 7/32"	14" x 1-11/32" x 5/16"

ROUND BASTARD



SIZE	SIZE	SIZE
4" x 5/32"	8" x 5/16"	12" x 1/2"
6" x 7/32"	10" x 3/8"	14" x 5/8"

SQUARE BASTARD



SIZE	SIZE	SIZE
4" x 5/32"	8" x 5/16"	12" x 1/2"
6" x 7/32"	10" x 3/8"	14" x 5/8"

THREE SQUARE BASTARD



SIZE	SIZE	SIZE
6" x 15/32"	8" x 5/8"	10" x 3/4"

KNIFE BASTARD



SIZE	SIZE
6" x 21/32" x 5/32"	8" x 27/32" x 3/16"

ROTARY MOWER AND GARDEN TOOL



SIZE 7" x 3/4" x 1/8"

MULTI-KUT, FLAT



SIZE	SIZE
8" x 25/32" x 7/32"	12" x 1-5/32" x 9/32"
10" x 31/32" x 1/4"	14" x 1-11/32" x 5/16"

MULTI-KUT, HALF ROUND



SIZE	SIZE
8" x 3/4" x 7/32"	12" x 1-1/8" x 11/32"
10" x 15/16" x 9/32"	14" x 1-9/32" x 13/32"

MULTI-KUT, SQUARE



SIZE	SIZE
8" x 5/16"	12" x 1/2"
10" x 3/8"	14" x 5/8"

CHAIN SAW, ROUND



SIZE	SIZE
8" x 3/16"	8" x 9/32"
8" x 7/32"	8" x 5/16"
8" x 1/4"	8" x 3/8"

CHAIN SAW, NARROW MILL No. 3084



SIZE 8" x 5/8" x 3/32"

BEVELED EDGE CHAIN SAW FILE No. 4680



SIZE 7" x 1/2" x 3/16"

SLIM TAPER



SIZE	SIZE
5" x 9/32"	8" x 15/32"
6" x 11/32"	10" x 5/8"

EXTRA SLIM TAPER



SIZE	SIZE
5" x 15/64"	7" x 5/16"
6" x 9/32"	8" x 13/32"

DOUBLE EXTRA SLIM TAPER



SIZE	SIZE
5" x 3/16"	7" x 1/4"
6" x 7/32"	8" x 5/16"

ignition files



5" PATENTED TUNGSTEN POINT FILES (POCKET CLIP)

Clip handle fits over pocket flap for easy carrying. A necessary tool for every auto mechanic. Used for cleaning spark plugs and dressing contact points. Packed in boxes containing a dozen files. Also mounted on cards (one dozen to a card).



5" REGULAR TUNGSTEN POINT FILES

For cleaning distributor points and spark plugs. Also used in cleaning contact points of magnetos, switches, electric bells, etc. Made with chisel tip for entering gaps and slots. Packed in boxes containing one dozen files and also mounted on cards (one dozen files to a card).



5" VOLTAGE REGULATOR FILES No. 2470

For voltage regulators, circuit breakers, relay and other electrical contact points requiring an extra-thin file with fine cut and smooth finish. 5" over-all — $\frac{5}{16}$ " wide, approximately .015" thick. Packed on counter display cards only, one dozen on card—twelve cards to a carton.



6" VOLTAGE REGULATOR RIFFLERS No. 1997

Recommended for removing pits and corrosion from contact points and also for filing them to a smooth finish. Length 6" over-all. Packaged in cardboard tubes to prevent breakage. One dozen to a box.

HELLER NUCUT®

CHOOSE THE RIGHT EDGE

Each of the three types of Heller Hand Blades is available in "Hard-Edge" or "All-Hard".

"HARD-EDGE" Blades are best for general purpose cutting. They are heat treated only on the tooth edge. The body of the blade remains tough and flexible to resist breakage under severe conditions.

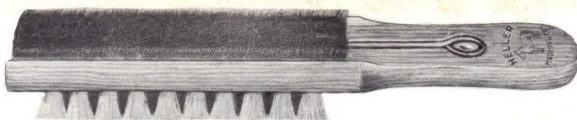
"ALL-HARD" Blades are heat treated for uniform hardness throughout. This gives them the stiffness preferred by skilled mechanics for straight, true cuts. They are recommended only where work is securely held.

SPECIFICATIONS			STANDARD		HIGH SPEED		HIGH SPEED	
ORDER BY PART NUMBER			Steel		"M"-HAX		"T"-HAX	
Length and Width	Thick-ness	No. Teeth per Inch	HARD EDGE Part No.	ALL HARD Part No.	HARD EDGE Part No.	ALL HARD Part No.	HARD EDGE Part No.	ALL HARD Part No.
10" x 1/2"	.025	18	30-1018	30A-1018	31-1018	31A-1018	32-1018	32A-1018
		24	30-1024	30A-1024	31-1024	31A-1024	32-1024	32A-1024
		32	30-1032	30A-1032	31-1032	31A-1032	32-1032	32A-1032
12" x 1/2"	.025	14	30-1214	30A-1214	31-1214	31A-1214	32-1214	32A-1214
		18	30-1218	30A-1218	31-1218	31A-1218	32-1218	32A-1218
		24	30-1224	30A-1224	31-1224	31A-1224	32-1224	32A-1224
		32	30-1232	30A-1232	31-1232	31A-1232	32-1232	32A-1232
PACKED 100 BLADES IN A BOX		10" BLADES → Weight per 100: 3 1/4 lbs. 12" BLADES → Weight per 100: 4 lbs.			Weight per 100: 3 1/2 lbs. Weight per 100: 4 1/2 lbs.		Weight per 100: 4 1/4 lbs. Weight per 100: 4 3/4 lbs.	

This list comprises all types, sizes, and tooth spacings that will be regularly carried in stock. Anything differing from these Hack Saws will be considered as special and will not be manufactured except in cases of urgent necessity.

file cards

COMBINATION FILE CARD AND BRUSH



FILE CARD



When file teeth are clogged with filings—slipping, scratching and inefficient cutting result. Clean your coarse file frequently with a file card (specially designed fine wire brush), and use the brush on your fine cut file. The combination file card and brush provides both card and brush, with a specially designed pick, in one handy cleaning tool.

file handles



SIZES

- # 104 4" for small files
- # 106 4-1/4" for files 4" to 8"
- # 108 5" for files 8" to 10"
- # 110 5-1/2" for files 12" to 14"
- # 112 6" for files 16" to 20"

Standard carton contains 1/4 gross of a size.

hack saw blades

Heller
nucut.



High Speed "M"-HAX
12"-24T Hard Edge

STANDARD STEEL BLADES . . . for general all-purpose cutting by machinists, mechanics, electricians, plumbers and maintenance men.

HIGH SPEED "M"-HAX BLADES . . . for fast, dependable cutting and long life on a variety of steels.

HIGH SPEED "T"-HAX BLADES . . . with the heat resistant property necessary for cutting tough alloy steels.

HELLER

automotive hammers

BALL PEIN



UPHOLSTERERS



No. 404A

7 oz. Magnetic Trimmer's or Upholsterer's Hammer, Full Polished — with Claw

Alloy steel; one end of head magnetized; Head 5½" long; overall length 11"; packed 1/2 doz.; Wt. 5 lbs. 10 oz.

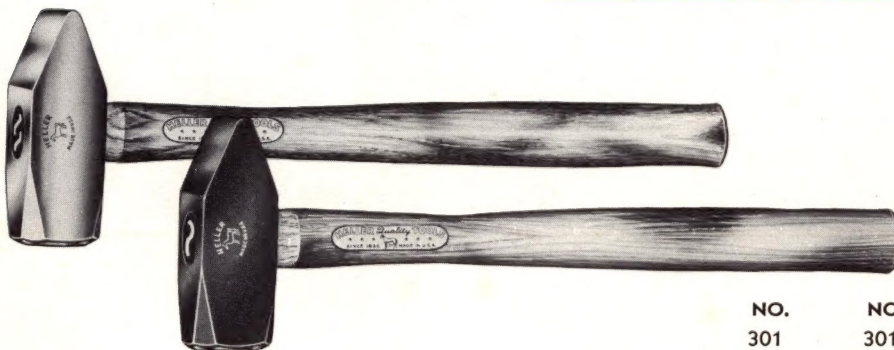
No. 404B

Polished, without claw.

Drop forged from highest quality tool steel, tempered and correctly balanced, these hammers are available either in full polish finish or black baked enamel finish, as illustrated. The letter "B" following the number indicates "black" finish. Also available in Excelsior Grade, indicated by letter "C", with black baked enamel forge finish.

NO.	NO.	NO.	WEIGHT	PACKED
797	—	—	2 oz.	1½ doz.
798	798B	798C	4 oz.	1½ doz.
800	800B	800C	8 oz.	1½ doz.
801	801B	801C	12 oz.	1½ doz.
802	802B	802C	1 lb.	1½ doz.
803	803B	803C	1¼ lbs.	1½ doz.
804	804B	804C	1½ lbs.	1½ doz.
806	806B	806C	2 lbs.	1½ doz.
808	808B	808C	2½ lbs.	1½ doz.
810	810B	810C	3 lbs.	1½ doz.

HAND OR TIRE



These high grade hammers are drop forged from highest quality tool steel, are correctly tempered and perfectly balanced. Available in the two grades illustrated; full polish, and black baked enamel. The "B" following the number indicates "Black" finish.

NO.	NO.	WEIGHT	PACKED
301	301B	2 lbs.	1⅓ doz.
302	302B	2½ lbs.	1⅓ doz.
303	303B	3 lbs.	1⅓ doz.

body bumping files



No. 2088

Flat Coarse Cut

Length 12"; width 1⅝"; Wt. 1 lb. 4 oz. each; packed 1/2 doz.; Wt. 6 lbs. 12 oz.



No. 2089

Flat Medium Cut

Length 12"; width 1⅝"; Wt. 1 lb. 4 oz. each; packed 1/2 doz.; Wt. 6 lbs. 12 oz.



No. 2090

Half Round Medium Cut

Length 12"; width 1⅝"; Wt. 1 lb. 4 oz. each; packed 1/2 doz.; Wt. 6 lbs. 12 oz.

Assortment No. 2612 — One each of the above, packed 1 set per box. Wt. 3 lbs. 12 ozs.

HELLER
Price List

American Pattern Files:

	4"	6"	8"	10"	12"	14"
Mill Bastard	.57	.58	.72	.93	1.40	1.95
Half Rd. Bastard		1.15	1.45	1.75	2.25	2.95
Flat Bastard	.72.	.83	1.02	1.33	1.85	2.50
Round Bastard	.58	.67	.82	1.08	1.45	2.05

File Holders:

number	length	application	price
106	4 1/2"	4" to 8" files	\$.28
108	5"	8" to 10" files	.33
110	6"	12" to 14" files	.37

#45 8 piece Rotary File Assortment \$29.95

Tungsten Point Files:

5" pocket clip model \$3.67 per dozen
5" regular model 2.55 per dozen

Voltage Regulator Files:

#2470 5" file \$1.30 per card
#1997 6" file 1.92 per card

Hacksaw Blades: (STANDARD SERVICE)

number	length	teeth	price
30-1018	10"	18	\$1.42 per package of 10
30-1024	10"	24	1.42 per package of 10
30-1032	10"	32	1.42 per package of 10
30-1218	12"	18	1.75 " " " "
30-1224	12"	24	1.75 " " " "
30-1232	12"	32	1.75 " " " "

HACKSAW BLADES: (HIGH SPEED)

number	length	teeth	price
31-1018	10"	18	\$5.55 per package of 10
31-1024	10"	24	\$5.55 " " " "
31-1032	10"	32	5.55 " " " "
31-1218	12"	18	6.64 " " " "
31-1224	12"	24	6.64 " " " "
31-1232	12"	32	6.64 " " " "

CENTRAL TOOL WAREHOUSE CO., INC.
Keystone drive
Leominster, Mass.

100
93
1.40
1.75
1.82
1.42

100
93
1.40
1.75
1.82
1.42

100
93
1.40
1.75
1.82
1.42

100
93
1.40
1.75
1.82
1.42

100
93
1.40
1.75
1.82
1.42

100
93
1.40
1.75
1.82
1.42

100
93
1.40
1.75
1.82
1.42

100
93
1.40
1.75
1.82
1.42

100
93
1.40
1.75
1.82
1.42